USGS science for a changing world

Earthquake Shaking **Green Alert**

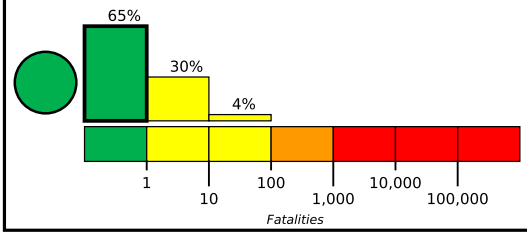
GSN ANSS USAID FROM THE AMERICAN PEOPLE

M 6.0, 72 km NNE of Port-Vila, Vanuatu

Origin Time: 2020-09-07 06:12:39 UTC (Mon 17:12:39 local)
Location: 17.1086° S 168.4935° E Depth: 10.0 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

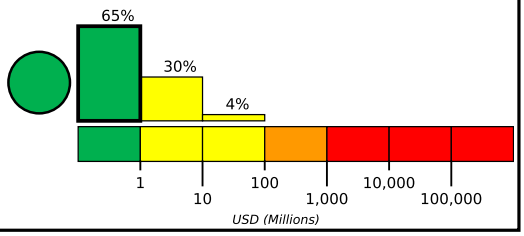
PAGER Version 6
Created: 3 weeks, 6 days after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

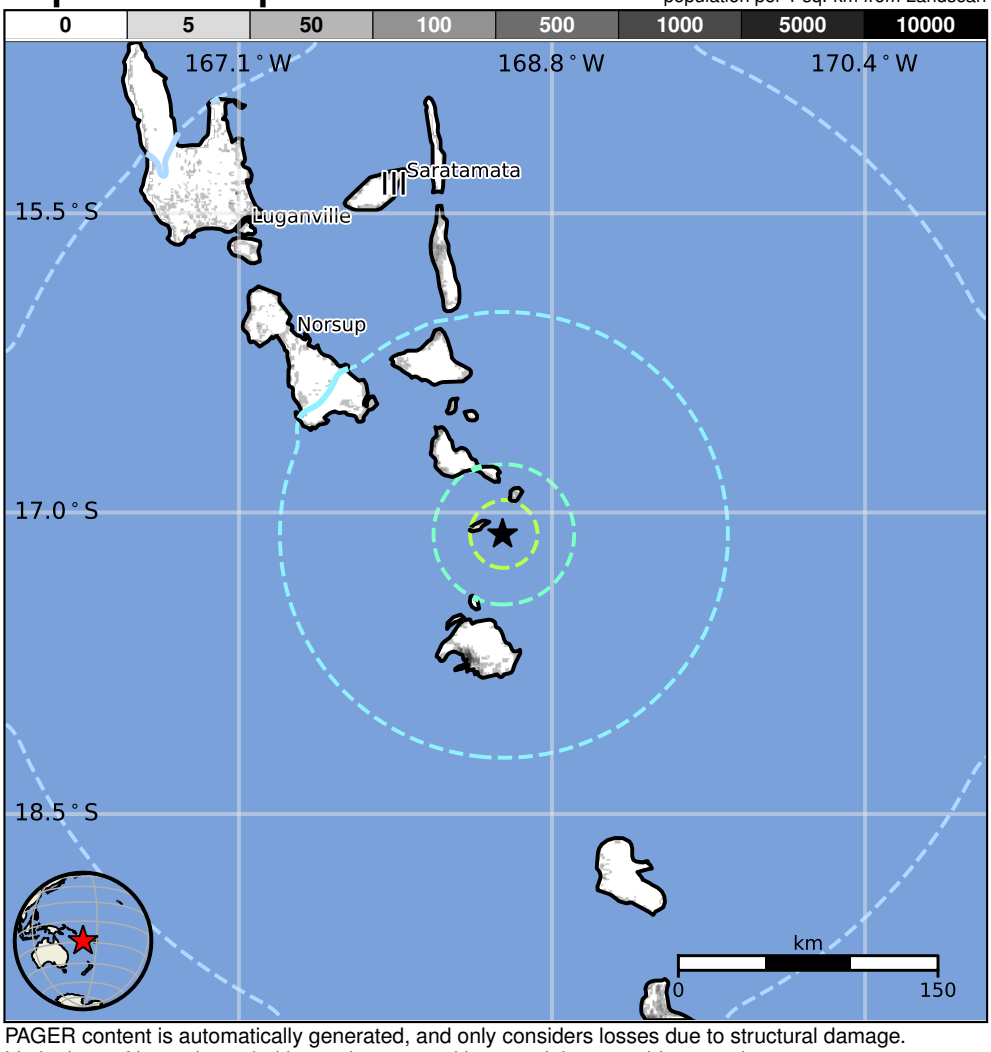


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	138k	125k	5k	3k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		**I**	**II-III**	**IV**	**V**	**VI**	**VII**	**VIII**	**IX**	**X+**
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	**Resistant Structures**	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unknown/miscellaneous types and wood construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2002-11-27	301	5.8	V(19k)	0
1999-08-22	118	6.5	IX(2k)	–
2002-01-02	77	7.2	VIII(28k)	0

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Port-Vila	36k
III	Lakatoro	1k
III	**Norsup**	**3k**
III	**Saratamata**	**<1k**
III	**Luganville**	**13k**
III	Port-Olry	2k

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us7000bj6y#pager

Event ID: us7000bj6y